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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-----------------|----------------------|---------------------|------------------|
| 10/784,409 | 02/23/2004 | Alexander Lifson | 60,246-251/10751 | · 1850 |
| 26096 | 7590 04/05/2005 | | EXAMINER | |
| CARLSON, GASKEY & OLDS, P.C. 400 WEST MAPLE ROAD | | | ALI, MOHAMMAD M | |
| SUITE 350 | IAPLE ROAD | | ART UNIT | PAPER NUMBER |
| | AM, MI 48009 | | 3744 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| • | · | | | | | | |
|--|--|---|---|--------------------------------|--|--|--|
| | | Application No. | Applicant(s) | | | | |
| Office Action Summary | | 10/784,409 | LIFSON ET AL. | | | | |
| | | Examiner | Art Unit | | | | |
| | | Mohammad Ali | 3744 | | | | |
| Period for | The MAILING DATE of this communica Reply | ation appears on the cover | sheet with the correspondence a | address | | | |
| THE MA - Extension after Silver - If the period of the pe | RTENED STATUTORY PERIOD FOR AILING DATE OF THIS COMMUNICATION of time may be available under the provisions of the firm of the mailing date of this community of the firm of the reply specified above is less than thirty (30) of the firm of the fir | ATION. 37 CFR 1.136(a). In no event, however ication. Jays, a reply within the statutory minitory period will apply and will expire Sol, by statute, cause the application to | er, may a reply be timely filed num of thirty (30) days will be considered tin IX (6) MONTHS from the mailing date of this become ABANDONED (35 U.S.C. § 133). | - nely. : communication. | | | |
| Status | | | | | | | |
| 1)⊠ R | esponsive to communication(s) filed | on 22 March 2005. | | | | | |
| | • |) ☐ This action is non-fina | l. | • | | | |
| ′= | ince this application is in condition fo | <i>,</i> — | | he merits is | | | |
| • | closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. | | | | | | |
| Dispositio | n of Claims | | | | | | |
| 4; 5)⊠ C 6)⊠ C 7)□ C | Claim(s) <u>1-9</u> is/are pending in the applea Of the above claim(s) <u>4,5 and 7</u> is/a claim(s) <u>6</u> is/are allowed. Claim(s) <u>1-3,8 and 9</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction | are withdrawn from consid | | • | | | |
| Application | n Papers | | | • | | | |
| 10)⊠ TI A R | ne specification is objected to by the lane drawing(s) filed on <u>02/23/04 AND</u> opplicant may not request that any objection eplacement drawing sheet(s) including the oath or declaration is objected to be | 03/22/05 is/are: a) ☐ acce on to the drawing(s) be held in the correction is required if the | n abeyance. See 37 CFR 1.85(a). drawing(s) is objected to. See 37 | CFR 1.121(d). | | | |
| Priority un | der 35 U.S.C. § 119 | | | | | | |
| a)□ 1 2 3 | cknowledgment is made of a claim fo All b) Some * c) None of: Certified copies of the priority do Copies of the certified copies of application from the International | ocuments have been recein ocuments have been receing the priority documents hand al Bureau (PCT Rule 17.2) | ved. ved in Application No ve been received in this Nation a)). | • al Stage | | | |
| 36 | e the attached detailed Office action | ior a list of the Certified Co | oles not received. | | | | |
| Attachment(s | ·) | | | • | | | |
| 1) Notice | of References Cited (PTO-892) | | nterview Summary (PTO-413) | | | | |
| 3) 🔲 Informa | of Draftsperson's Patent Drawing Review (PTC tion Disclosure Statement(s) (PTO-1449 or PT lo(s)/Mail Date | ro/SB/08) 5) 🔲 1 | Paper No(s)/Mail Date Notice of Informal Patent Application (P Other: | 'TO-152) | | | |

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Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "member" for new claim 8 and "pin" for another new claim 9 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Aaron et al., (5,345,780). Aaron et al., disclose a bi-flow expansion device for heat pump comprising a compressor 16 to first 18 and second 124 heat exchangers; and expansion device 12/14 connected between the first 18 and second 24 heat exchangers the expansion device 12/14 including a flow resistance device 43 arranged between first and second fluid passages, the fluid flowing along a wall 40 provided by the passage, and flow resistance device 43 spaced from the wall 40 and arranged in fixed relationship thereto, the flow resistance device 32/42/23 providing a first fluid resistance with the fluid flowing in a first direction and a second fluid resistance greater than the first resistance with the fluid flowing in a second direction, the flow resistance device 43 is suspended from the wall 40 by a member/stop 42. See Fig. 4.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Aaron.

The Examiner considers the stop 43 as an obvious equivalent to pin for performing the same function as a suspending member of the restrictor member 43.

Allowable Subject Matter

Claim 6 is allowed.

Response to Arguments

Applicant's arguments, see remarks page 4, filed 03/22/05, with respect to the rejection(s)of claim(s) 1, 8 and 9 under 102 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of prior art found on further search.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within. TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammad Ali whose telephone number is 703-308-

5032. The examiner can normally be reached on Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Esquivel Denise can be reached on 703-308-2597. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mohammad M. Ali March 30, 2005

> WILLIAM TAPOLCAI PRIMARY EXAMINER